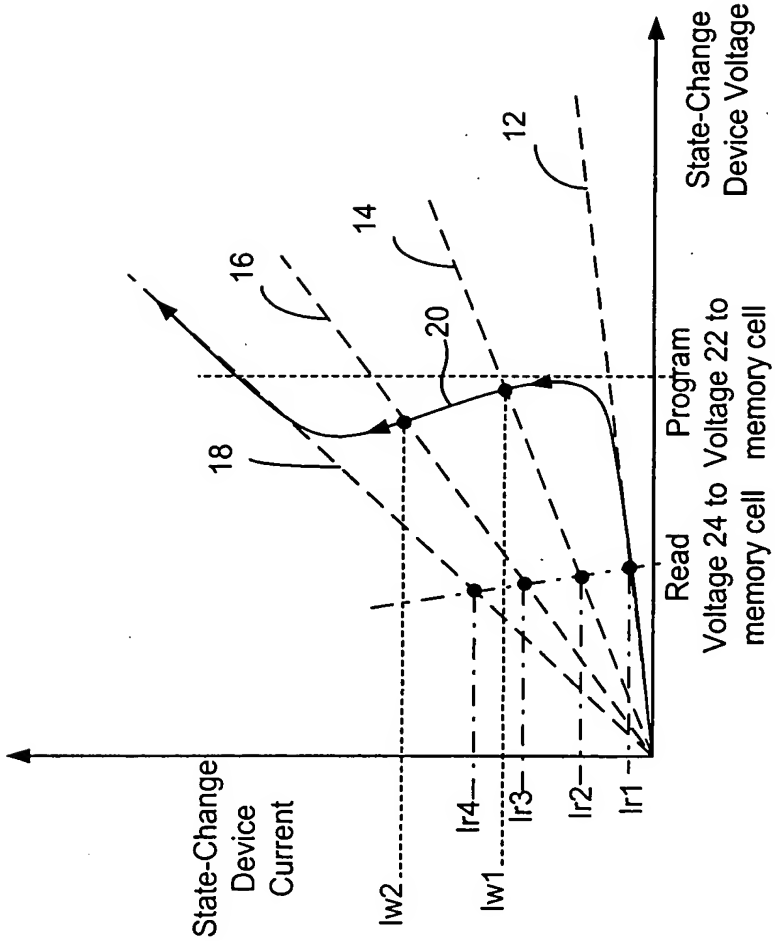
State-Change Device Current
State-Change Device Voltage
Read Voltage 24 to memory cell
Program Voltage 22 to memory cell
Iw2
Iw1
Ir4
Ir3
Ir2
Ir1
18
16
14
12
20

Fig. 1

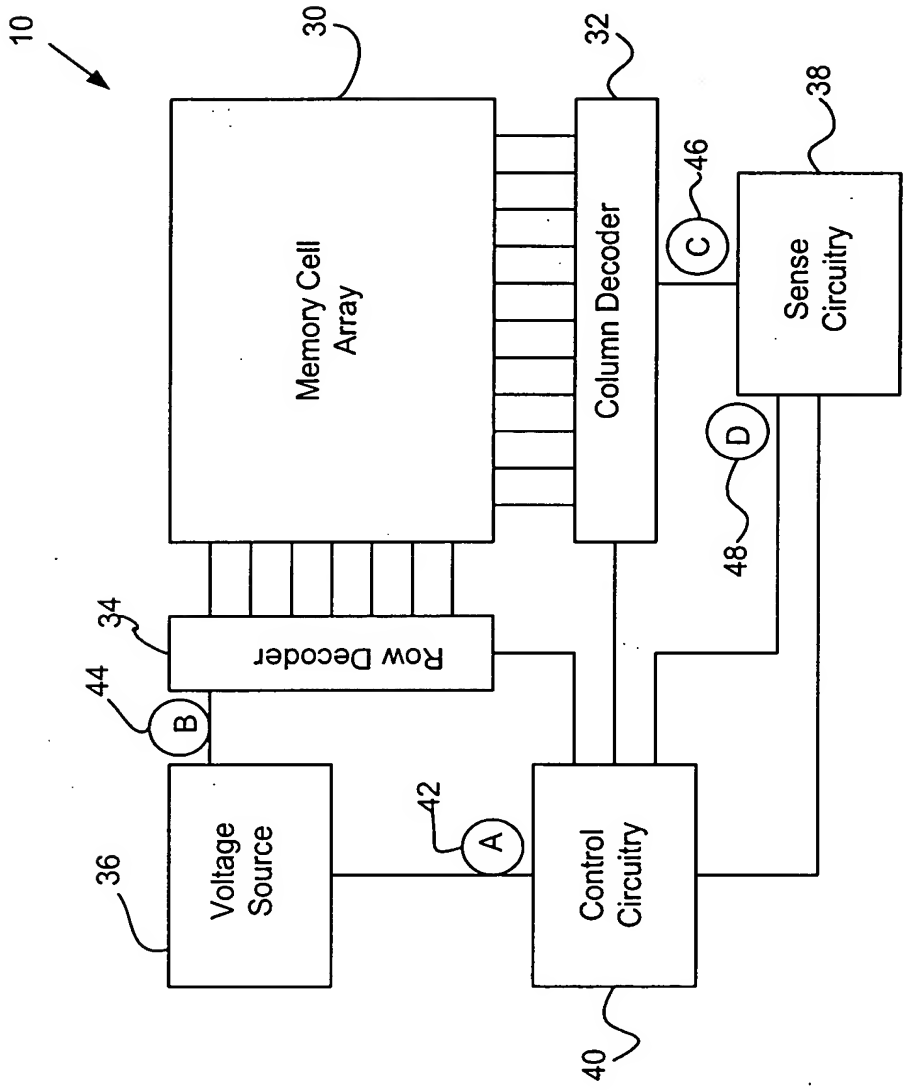
10
30
32
38
46
Memory Cell Array
Column Decoder
Sense Circuitry
C
D
48
34
Row Decoder
44
B
36
Voltage Source
42
A
Control Circuitry
40

Fig. 2

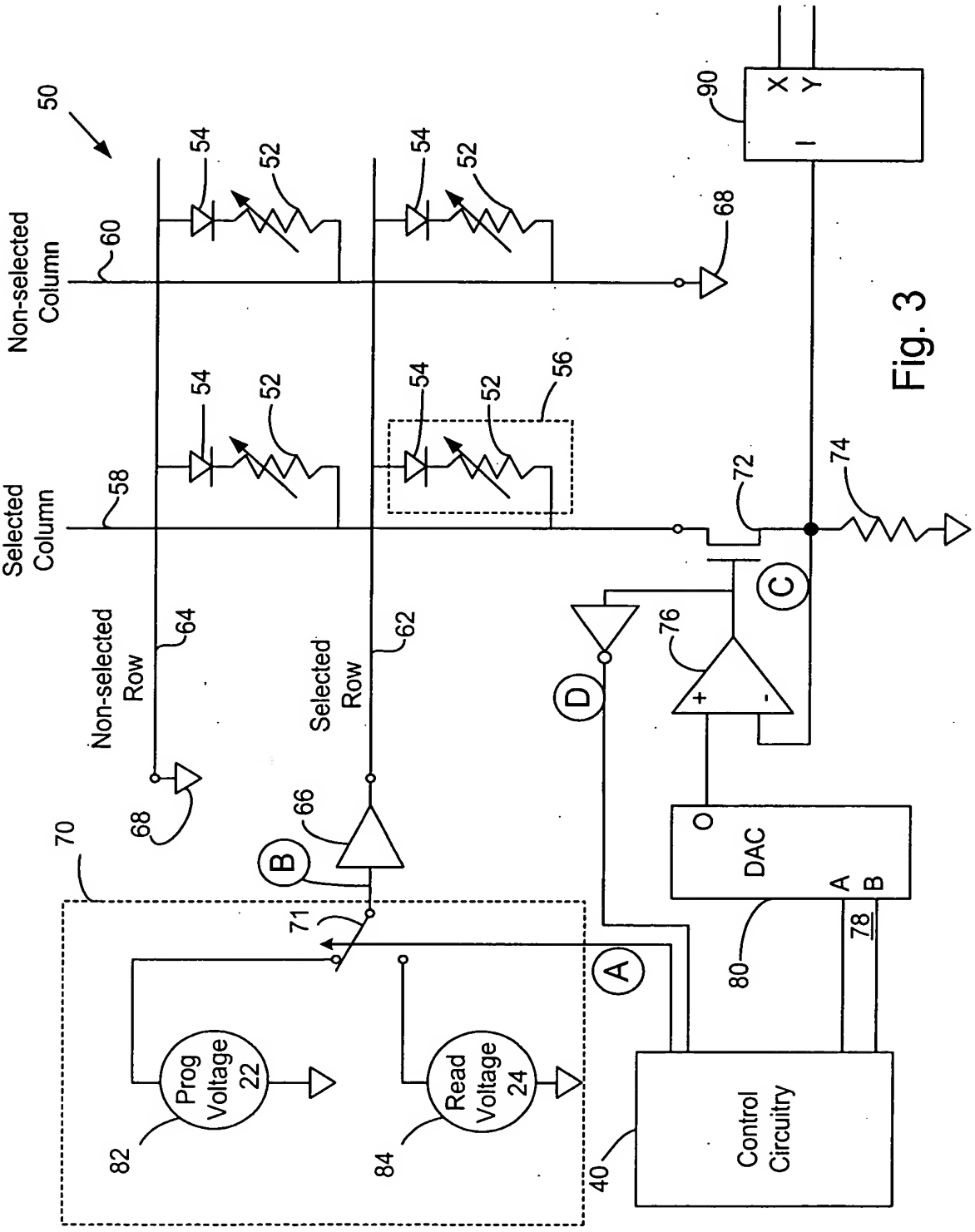

Fig. 3

Docket #10013102

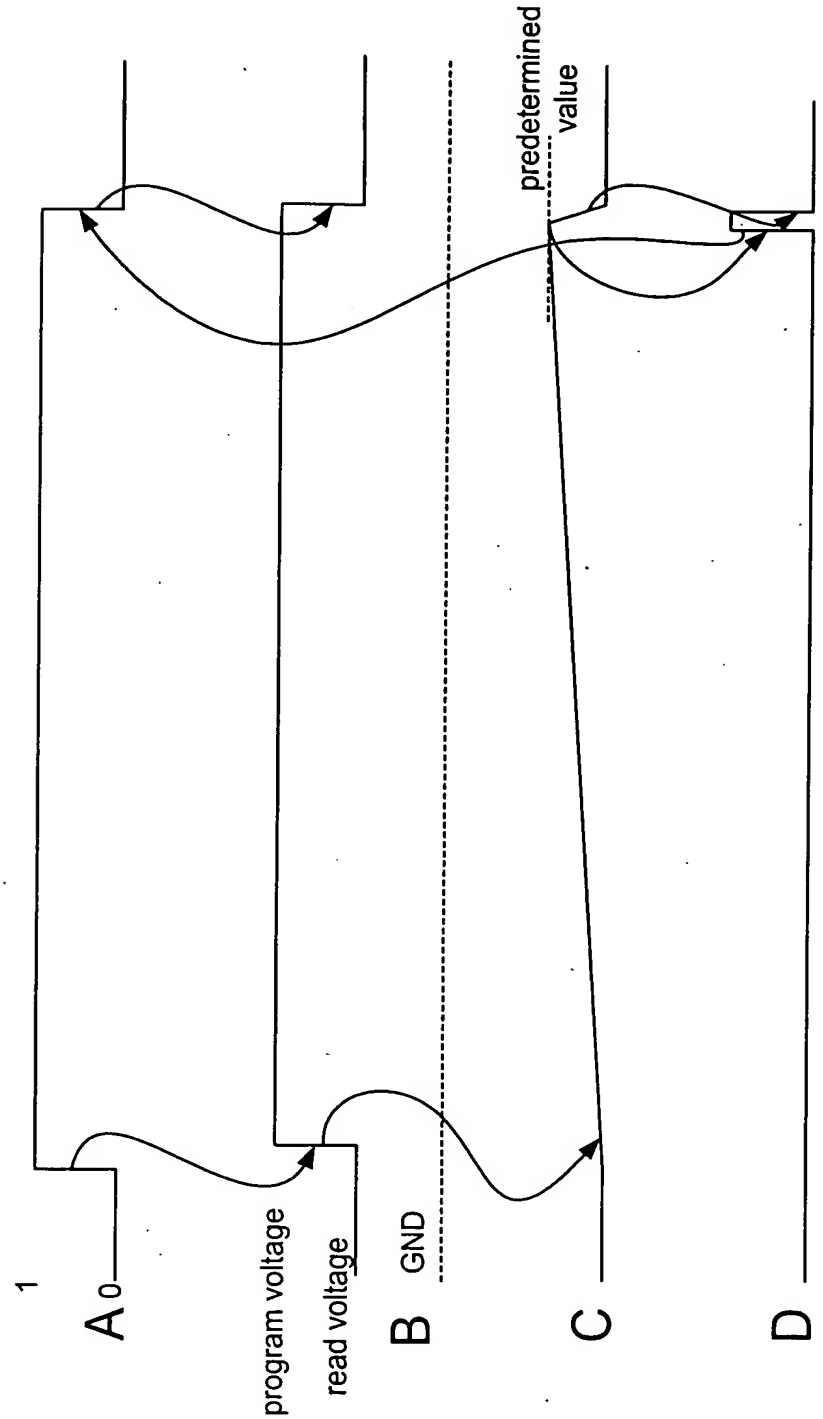

Fig. 4

10013102-020104.doc

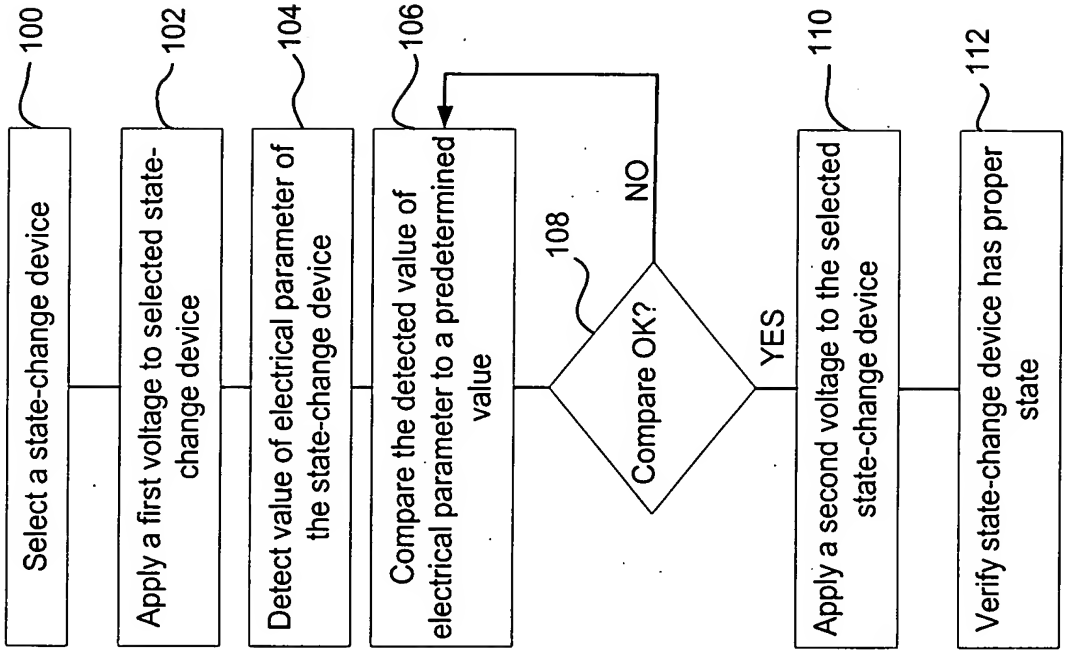

Fig. 5

Express Mail Label No. EV042078948US

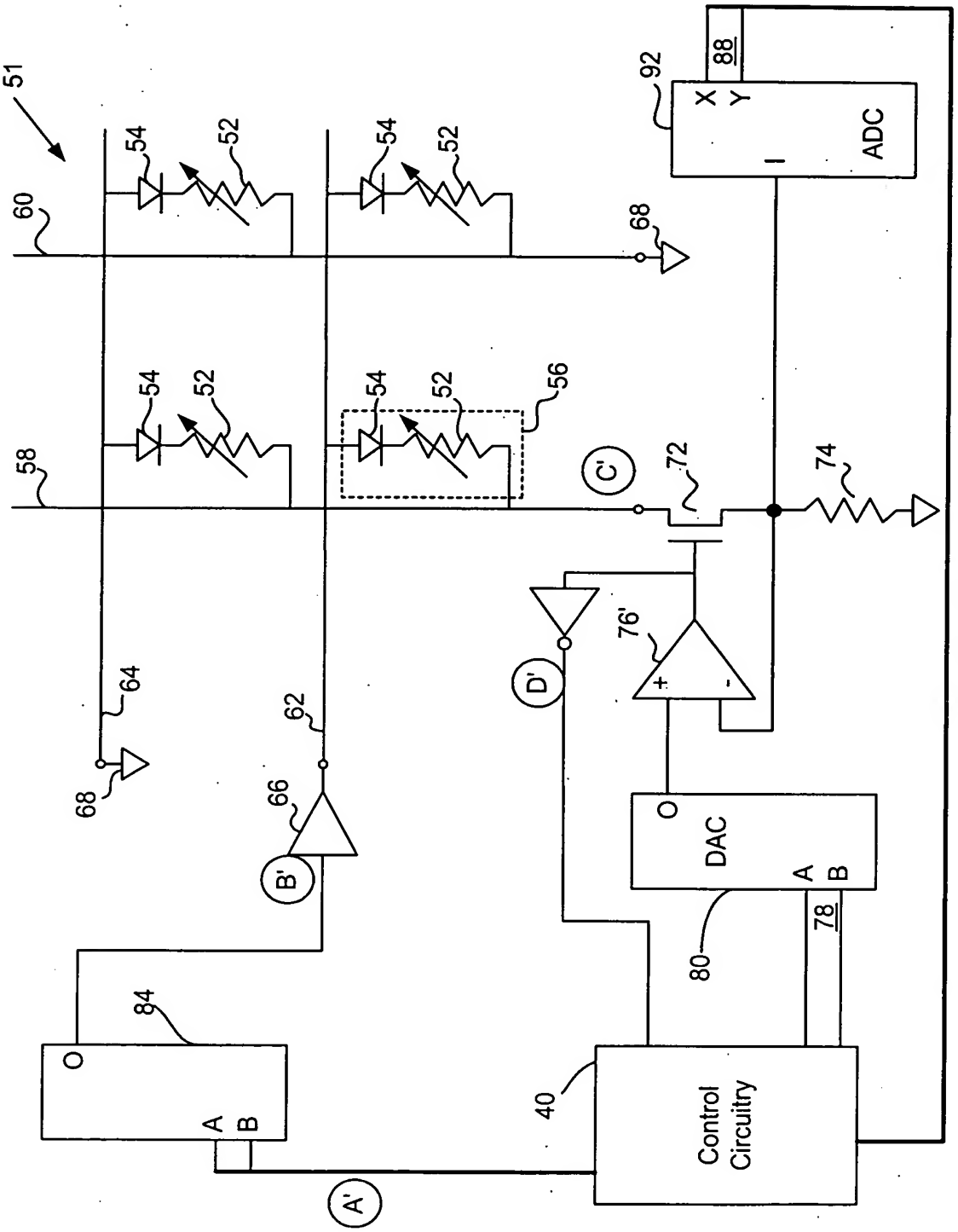

Fig. 6

Docket No. 10013102

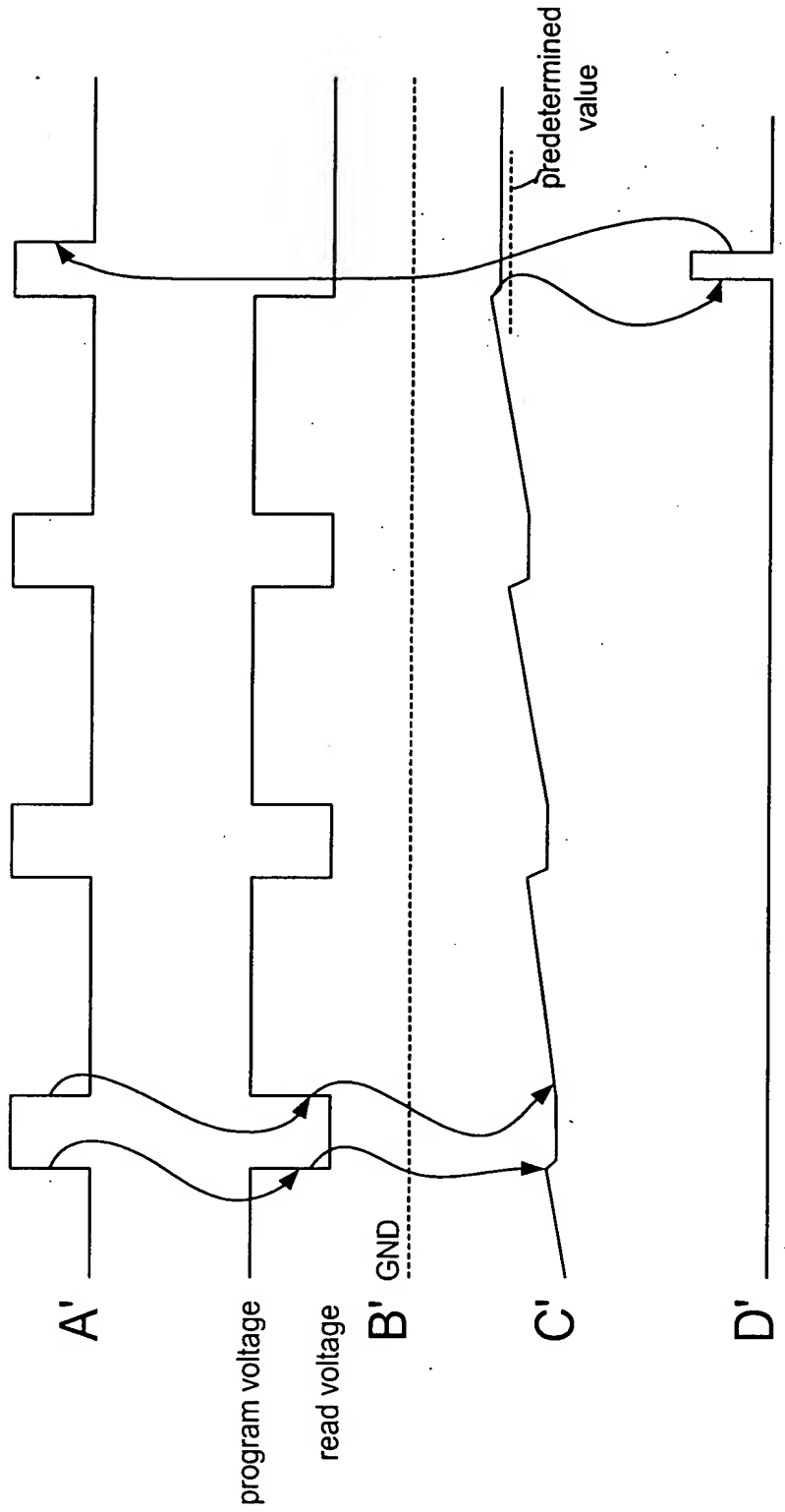

Fig. 7

10013102 - 082704

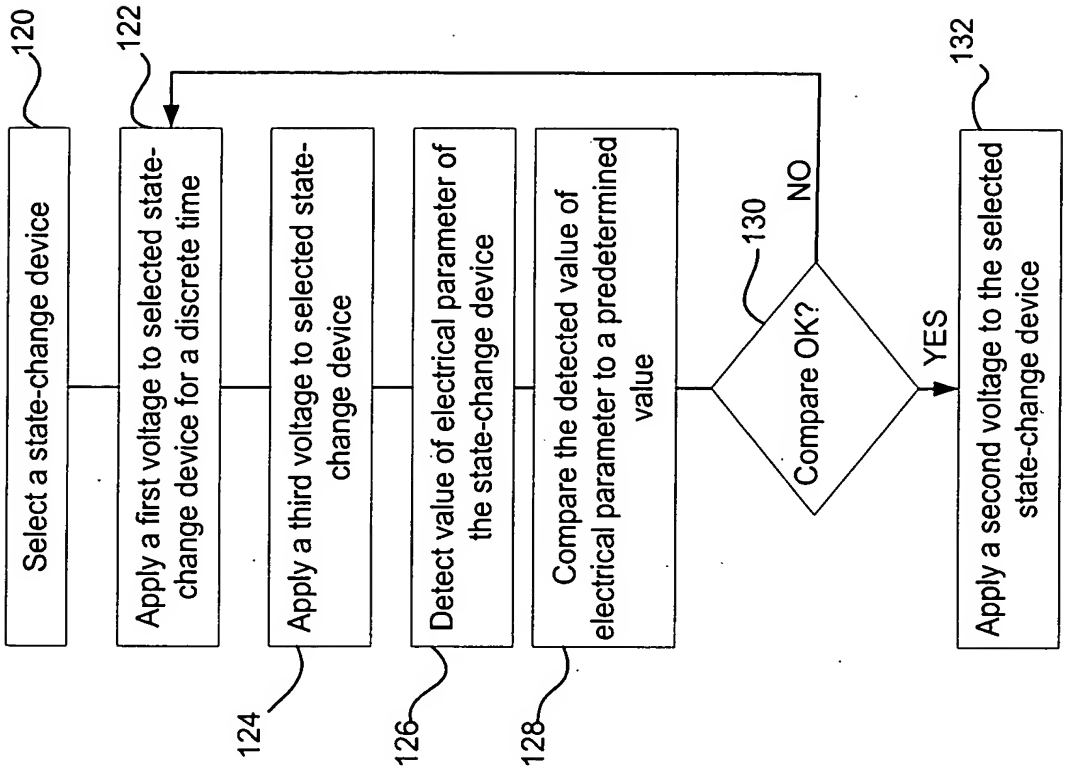
Select a state-change device
120
Apply a first voltage to selected state-change device for a discrete time
122
Apply a third voltage to selected state-change device
124
Detect value of electrical parameter of the state-change device
126
Compare the detected value of electrical parameter to a predetermined value
128
Compare OK?
130
NO
YES
Apply a second voltage to the selected state-change device
132

Fig. 8